

Claims

1. A nailcare device having a housing (1) and an electric motor-driven grinding body (4), which is seated on a drive shaft (10) connected to an electric motor (6) and is located in the upper part of the housing (1) under a covering (3, 21), which covering is attached, firmly seated but readily releasably, to the housing (1) of the device and has at least two slots (3a), at different radial spacings from the drive shaft (10), located as close as possible to the grinding body (4), for receiving the fingernail of the user, characterized in that the grinding body (4) is embodied as essentially discoid; and that the covering (3, 21), above the grinding body (4), is shaped such that the axial spacing between the top (4a) of the discoid grinding body (4) and the slots (3a), located on the covering (3, 21) at different radial spacings from the drive shaft (10), increases or decreases with increasing spacing from the drive shaft (10).
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2. The nailcare device in accordance with claim 1, characterized in that the covering (3, 21) is dished in a slightly funnel-like fashion.
- 20 3. The nailcare device in accordance with claim 1, characterized in that the covering (3, 21) is slightly conically arched.
- 25 4. The nailcare device in accordance with one of claims 1 through 3, characterized in that the grinding body (4) is shaped slightly conically.
5. The nailcare device in accordance with one of claims 1 through 4, characterized in that for nailcare, the device can be placed on a level surface and does not need to be guided or held with the other hand.

6. The nailcare device in accordance with claim 5, characterized in that the bottom (2) of the device is embodied with a slip-proof base (2a) of rubber or plastic.

5 7. The nailcare device in accordance with claim 5 or 6, characterized in that the base (2a) of the device is embodied as a suction cup.

8. The nailcare device in accordance with one of the foregoing claims, characterized in that the slots (3a) are of different shape, width, and/or length.

10 9. The nailcare device in accordance with one of the foregoing claims, characterized in that a plurality of slots (3a), preferably in groups of two to four slots each, of the same and/or partly different shape, width, and/or length are located on the covering or plate (3, 21) at mutually offset radial spacings from the 15 drive shaft (10), side by side above the grinding body (4).

10. The nailcare device in accordance with one of the foregoing claims, characterized in that a plurality of slots (3a) of the same and/or partly different shape, width, and/or length are located in groups of two to four, preferably three, 20 slots (3a), parallel or arched in curved form, each at equal radial spacings from one another.

11. The nailcare device in accordance with one of the foregoing claims, characterized in that the individual groups of slots (3a) are distributed, each in 25 approximately equal angular spacings of preferably approximately 90° or 120°, over the surface of the covering or plate (3, 21).

12. The nailcare device in accordance with one of the foregoing claims, characterized in that the grinding body (4) is secured releasably and

interchangeably to the drive shaft (10).

13. The nailcare device in accordance with one of the foregoing claims, characterized in that the grinding body (4) is spring-loaded relative to the housing body (1) and the covering or plate (3, 21), preferably in the direction of the drive shaft (10), in such a way that it can escape an excessively strong nail pressure.

14. The nailcare device in accordance with one of the foregoing claims, characterized in that at least one additional nail manicuring option exists on the lateral circumference of the device, next to the grinding body (4), with a rest (3c) for the fingertip and with a slot (3d), parallel to the grinding body (4), for the fingernail.

15. The nailcare device in accordance with one of the foregoing claims, characterized in that the electric motor (6) is encapsulated against penetrating fingernail dust by a dust guard sheet (15) between the drive shaft (10) and the side wall of the housing.

16. The nailcare device in accordance with one of the foregoing claims, characterized in that the slots (3a) on the covering or plate (3, 21) can be assigned fingernail templates (13, 13a), in the form of interchangeable, differently shaped ramps for the fingertip to roll on, for special shapes of nails.

17. The nailcare device in accordance with claim 16, characterized in that the fingernail templates (13) can be attached in slip-proof fashion to the covering or plate (3, 21), preferably by terminal tabs (14, 14a), in receptacles (3b) between slots (3a) located side by side.

18. The nailcare device in accordance with claim 16, characterized in that the

fingernail template (13a) can be secured releasably to the covering or plate (3, 21) by means of a contact adhesive.

19. The nailcare device in accordance with claims 16 and 18, characterized in
5 that at least some of the slots (3a) on the covering or plate (3, 21) have a radial width such that by means of a rib (16) peripherally engaging the slot, and by means of a profiled ramp (17) oriented upward from the rib (16), fingernail templates (13a) adapted to the course of the slot come into contact with a self-adhesive securing strip (18), parallel to the top of the plate (3, 21) and oriented to
10 the rear, directly beside the slot (3a).

20. The nailcare device, in particular in accordance with claim 1, characterized in that the covering or plate (3, 21) is adjustable on the housing (1) at different axial spacings from the top of the grinding body (4).

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21. The nailcare device in accordance with claim 20, characterized in that the covering or plate (3, 21) can be firmly clamped at a variable axial spacing from the grinding body (4) by preferably three, radially outward-protruding bearing arms (25) distributed uniformly on the outer circumference, in graduated bearing faces (24a, 24b, 24c), which are distributed uniformly, likewise at the spacing of the bearing arms (25), on the upper edge (22) of the housing (1), by means of a securing ring (20) that fits over the bearing arms (25).

22. The nailcare device in accordance with claim 20 or 21, characterized in
25 that the bearing arms (25), like the graduated bearing and supporting faces (24a, 24b, 24c), are distributed on the housing relative to the housing circumference, preferably at angular intervals of 120° each.

23. The nailcare device in accordance with one of claims 20 through 22,

characterized in that the securing ring (20) can be firmly clamped on the housing (1) by means of helical threads (24, 26), bayonet mounts, or by being clamped on.

24. The nailcare device in accordance with one of the foregoing claims,

5 characterized in that the axial spacing between the grinding body (4) and the covering or plate (3) is variable by means of a set screw (31) located centrally in a threaded bore (30) on the covering in an extension of the drive shaft (10).

25. The nailcare device in accordance with one of the foregoing claims,

10 characterized in that the grinding body (4) is embodied as a hollow body of rotation that is open at the bottom and is angled on its outer circumference in the direction of the drive shaft (10).

26. The nailcare device in accordance with claim 25, characterized in that the

15 grinding body (4) is angled on its outer circumference (4b) at an angle of approximately 45° to 90°.

27. The nailcare device in accordance with one of the foregoing claims,

characterized in that the grinding body (4) has an outer circumference (4b) that is

20 arched in curved form.